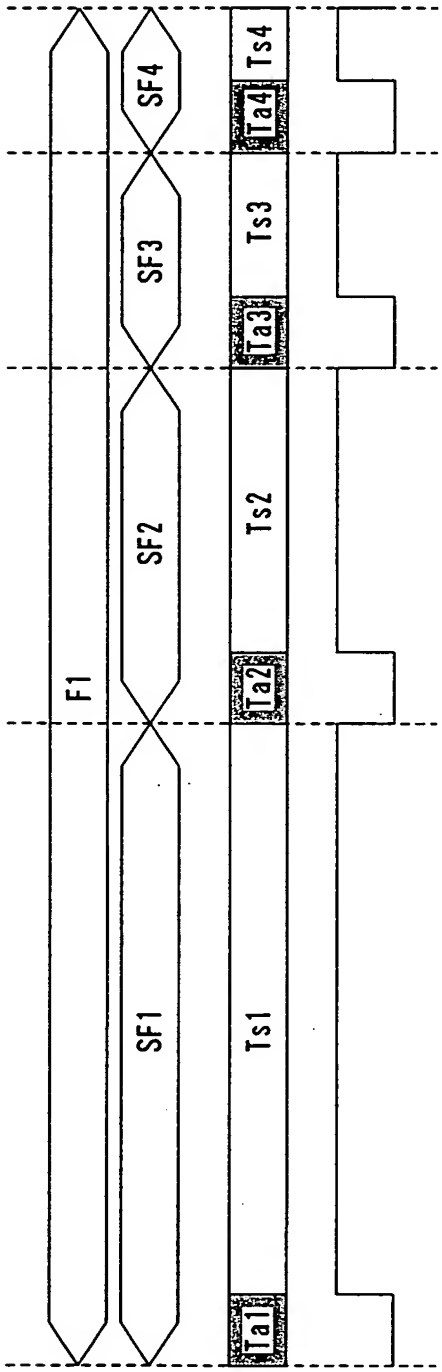

frame period F
subframe period SF
write-in period Ta
display period Ts
driving voltage of light emitting element
F1
SF1
SF2
SF3
SF4
Ta1
Ta2
Ta3
Ta4
Ts1
Ts2
Ts3
Ts4

Fig. 1A

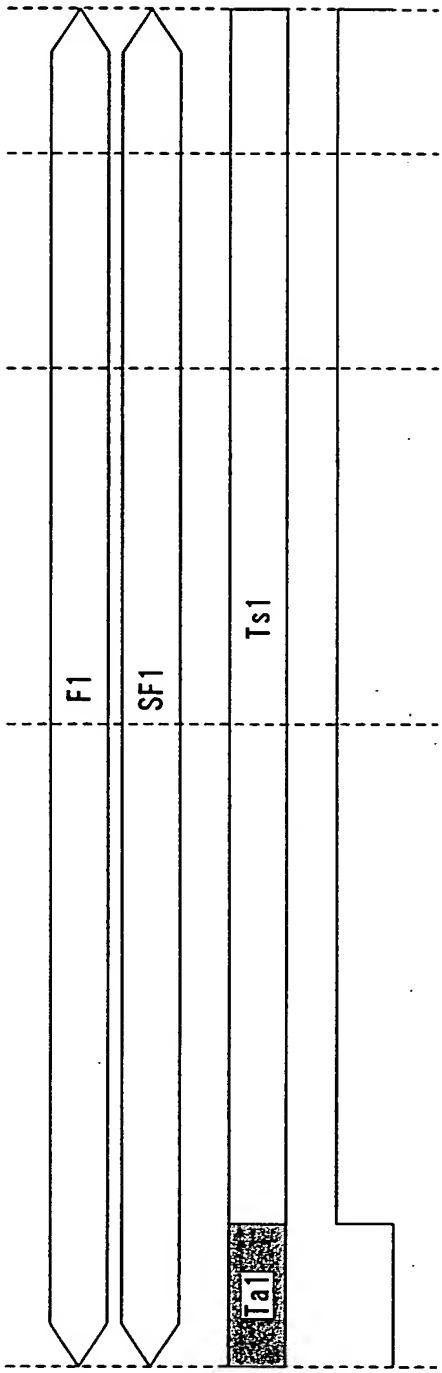

frame period F
subframe period SF
write-in period Ta
display period Ts
driving voltage of light emitting element
F1
SF1
Ta1
Ts1

Fig. 1B

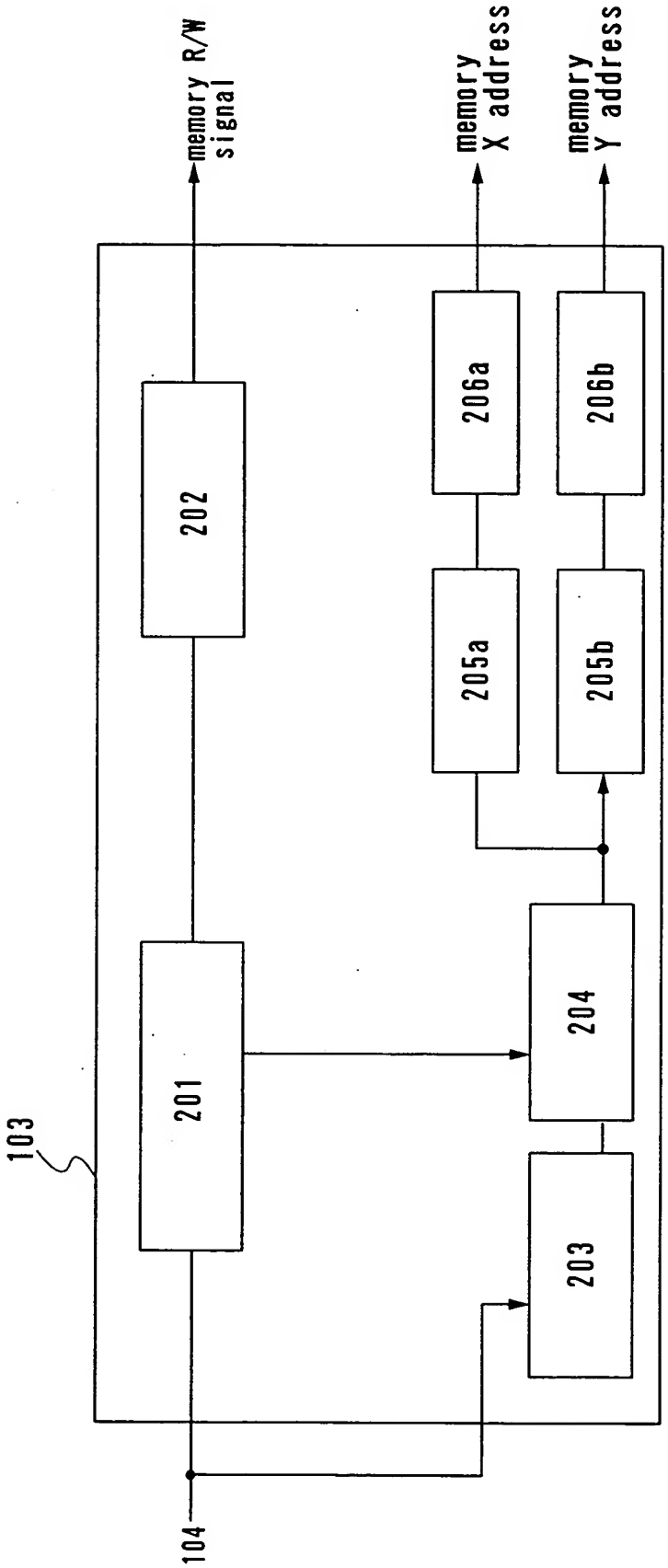

memory R/W signal
memory X address
memory Y address
202
206a
206b
205a
205b
204
201
203
103
104

Fig. 2

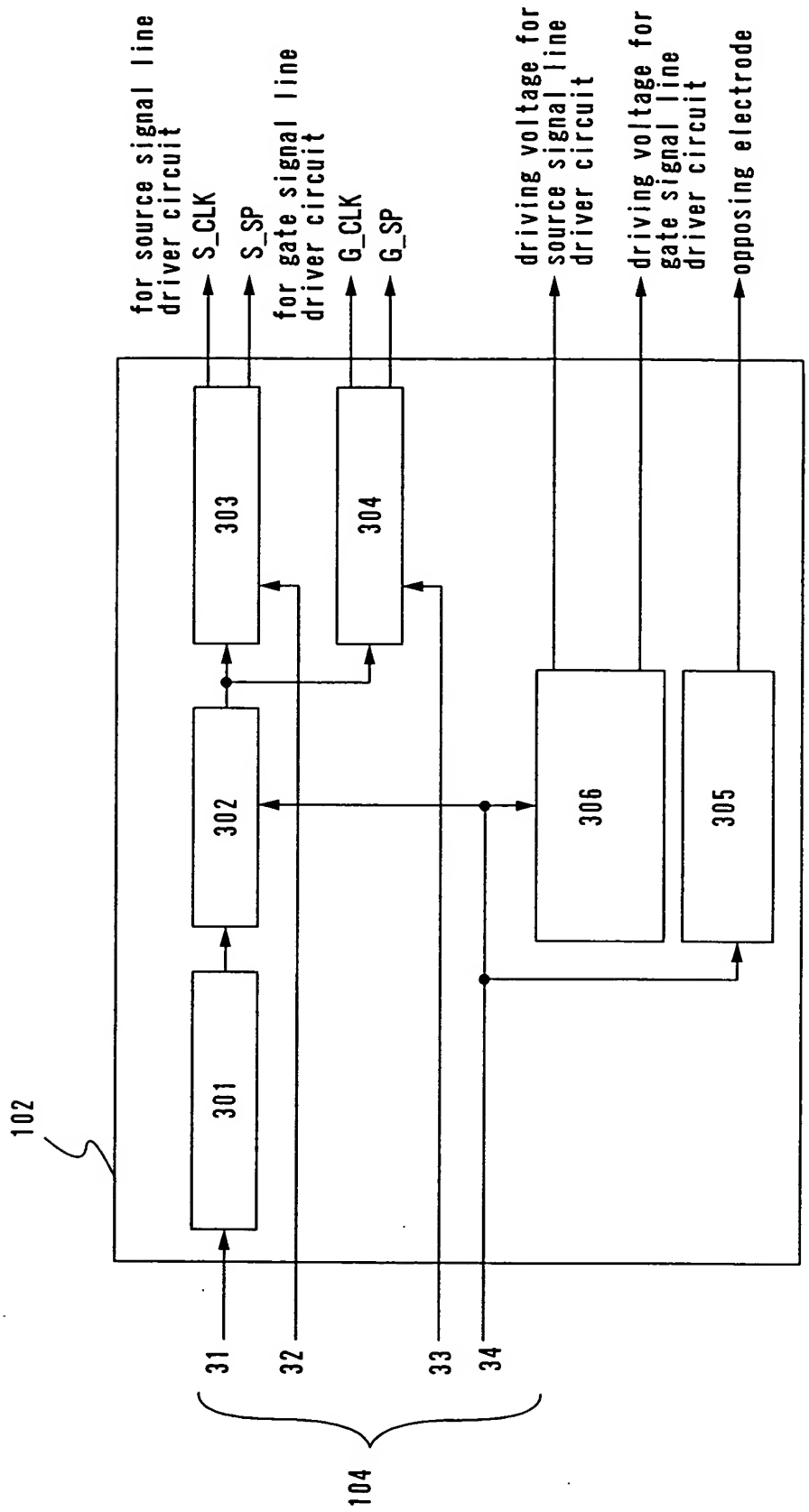

for source signal line driver circuit
S_CLK
S_SP
for gate signal line driver circuit
G_CLK
G_SP
driving voltage for source signal line driver circuit
driving voltage for gate signal line driver circuit
opposing electrode
303
304
302
306
305
301
102
31
32
33
34
104

Fig. 3

Fig. 4

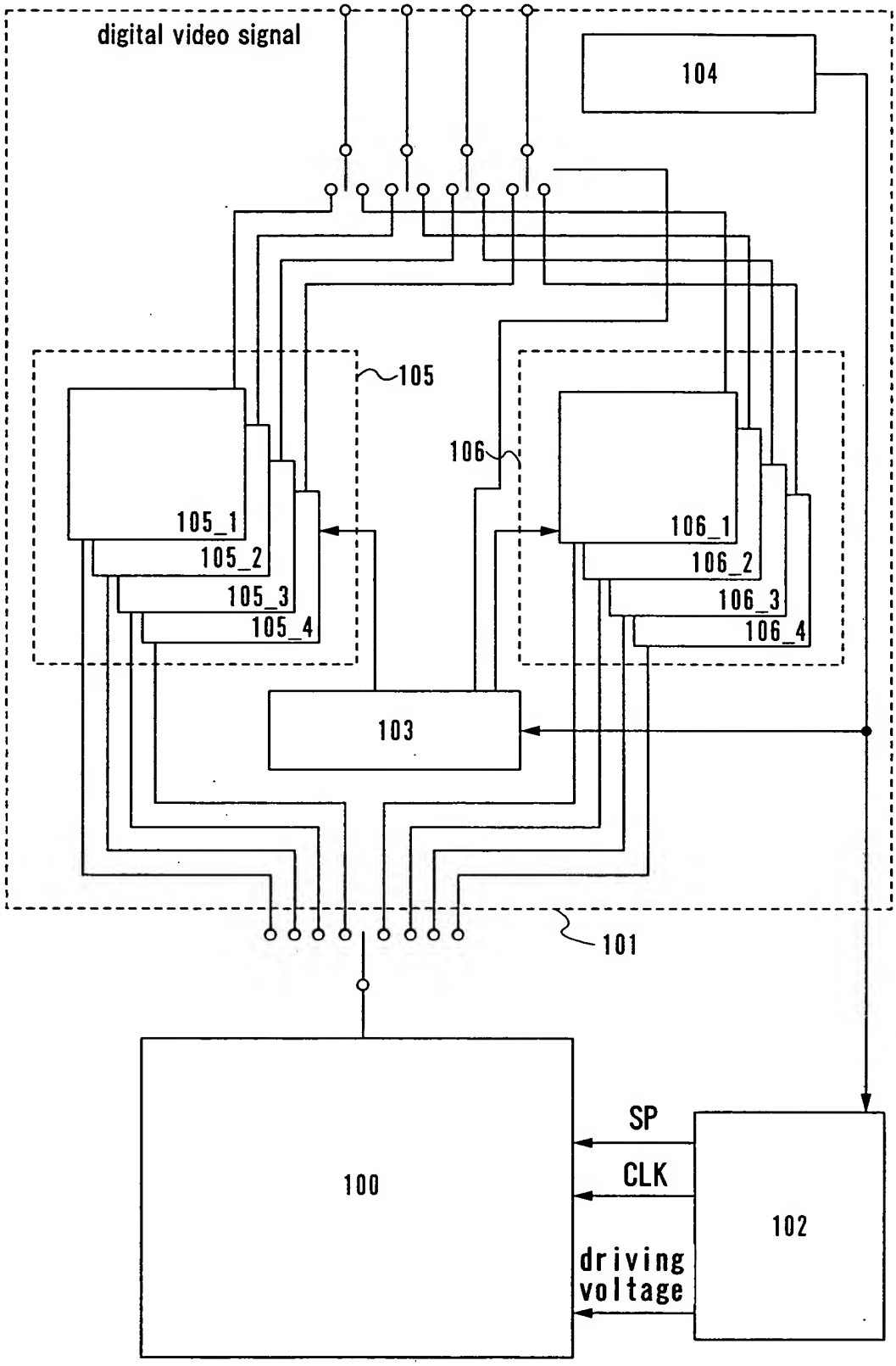

digital video signal
104
105
106
105_1
105_2
105_3
105_4
106_1
106_2
106_3
106_4
103
101
100
SP
CLK
driving voltage
102

Fig. 5A

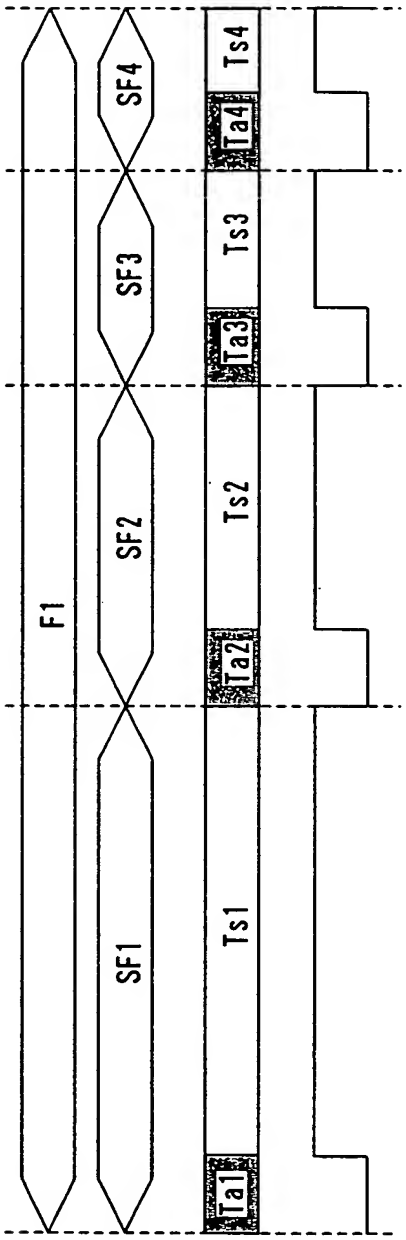
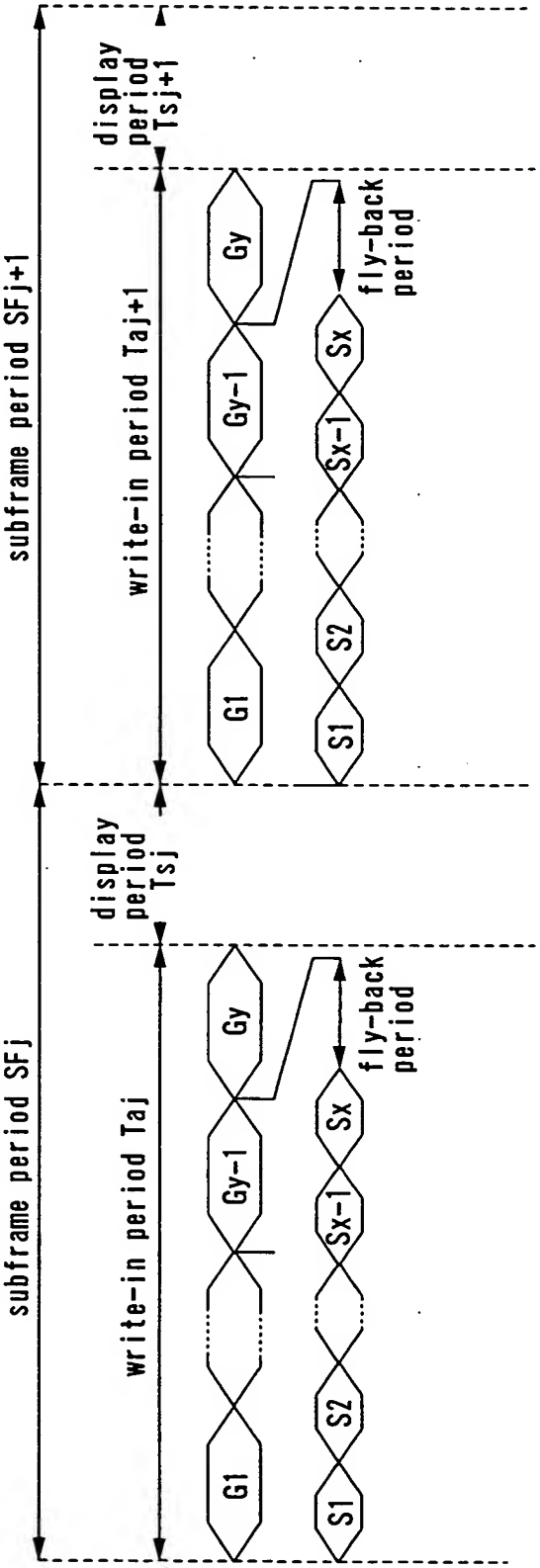

frame period F
subframe period SF
write-in period Ta
display period Ts
driving oltage of light emitting element
F1
SF1
SF2
SF3
SF4
Ts1
Ts2
Ts3
Ts4
Ta1
Ta2
Ta3
Ta4

Fig. 5B


subframe period SFj
subframe period SFj+1
write-in period Taj
write-in period Taj+1
display period Tsj
display period Tsj+1
fly-back period
fly-back period
G1
Gy-1
Gy
S1
S2
Sx-1
Sx

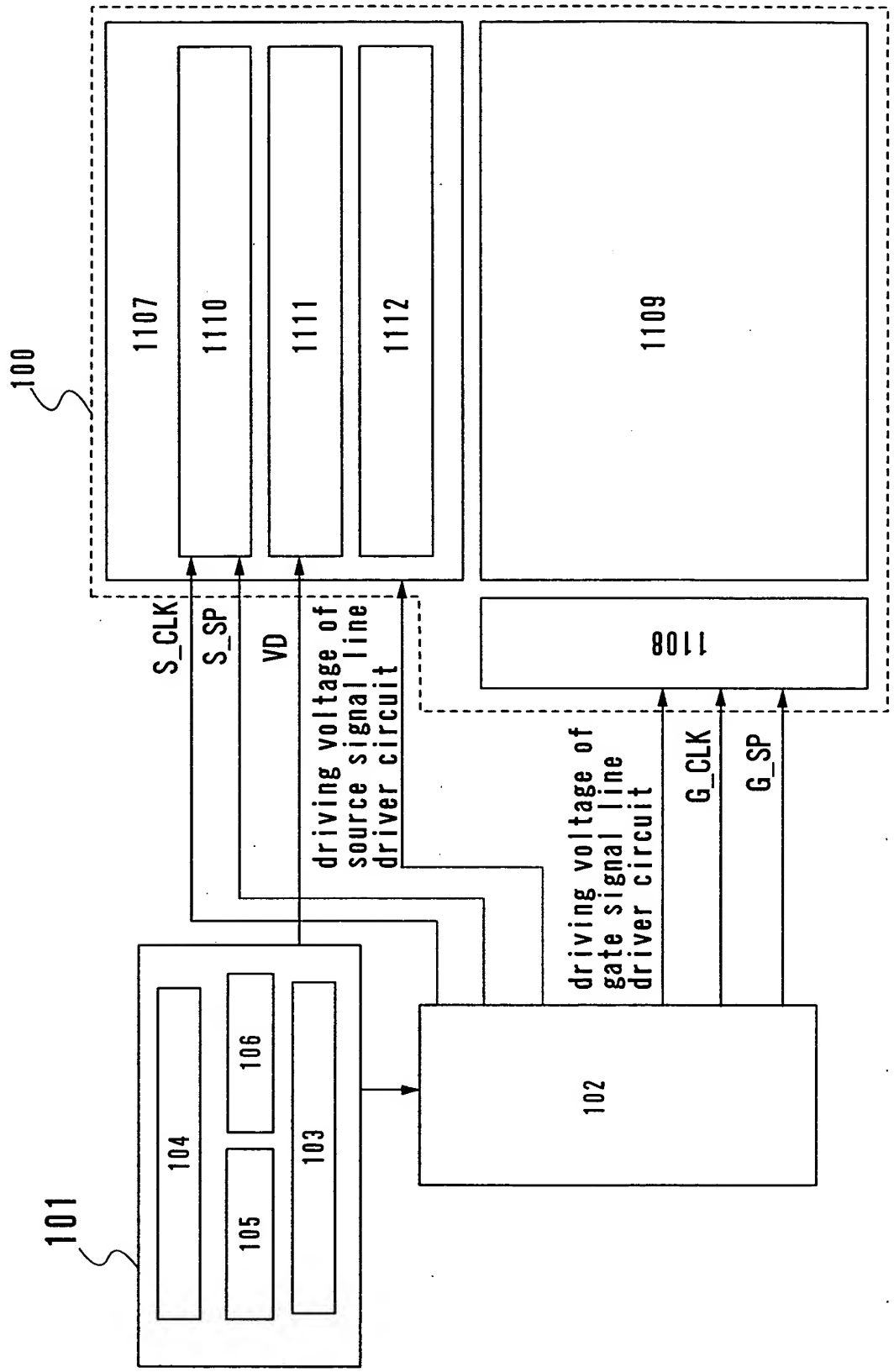

100
1107
1110
1111
1112
1109
1108
S_CLK
S_SP
VD
driving voltage of source signal line driver circuit
driving voltage of gate signal line driver circuit
G_CLK
G_SP
101
104
106
105
103
102

Fig. 6

Fig. 7

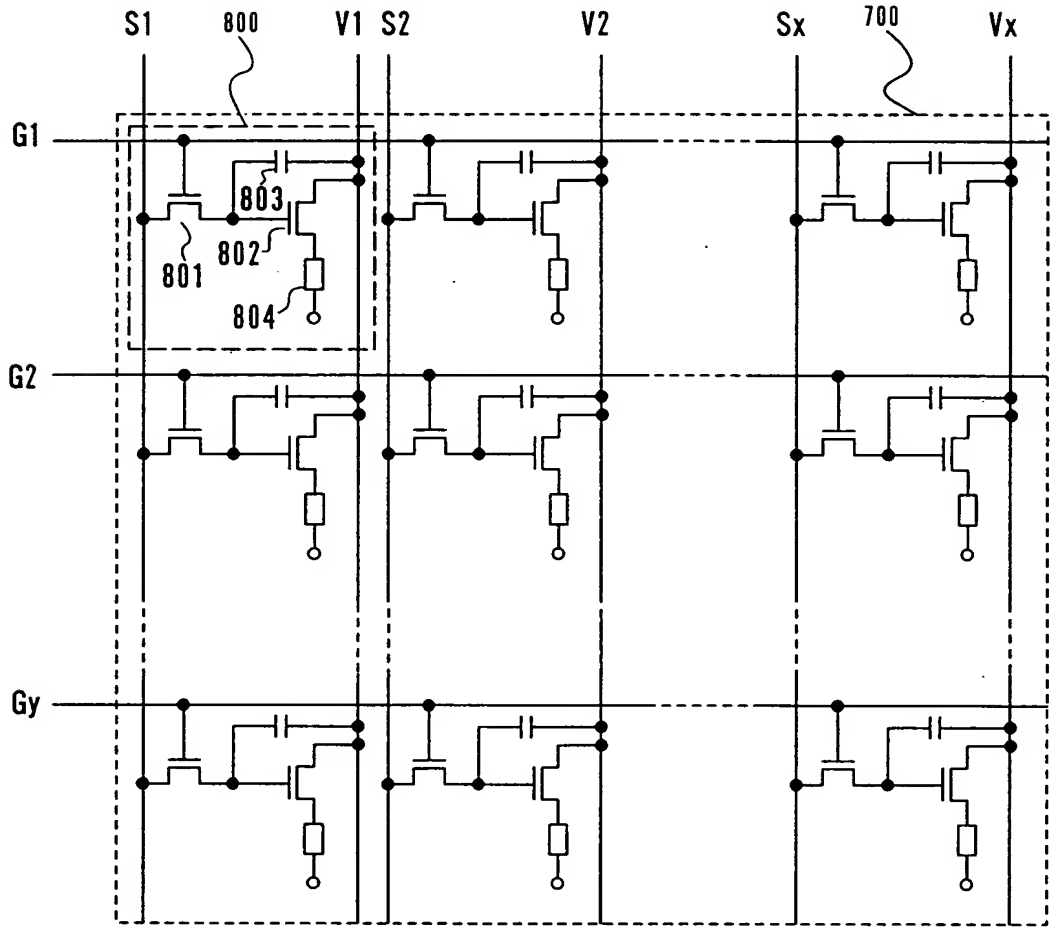
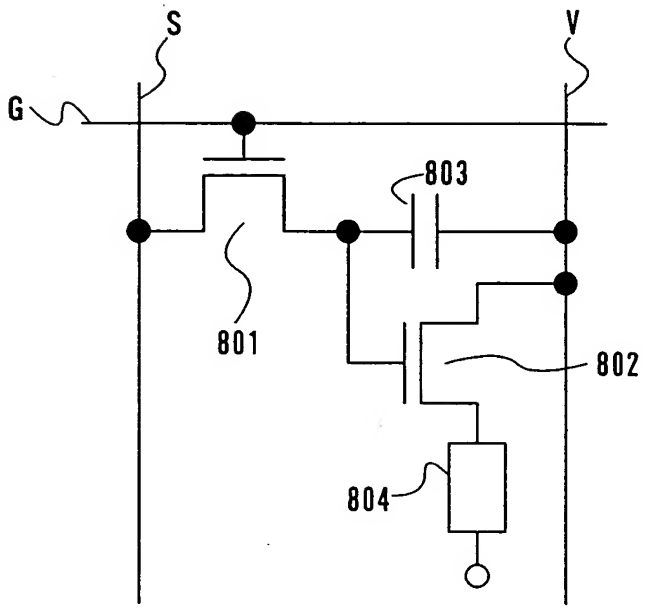


Fig. 8



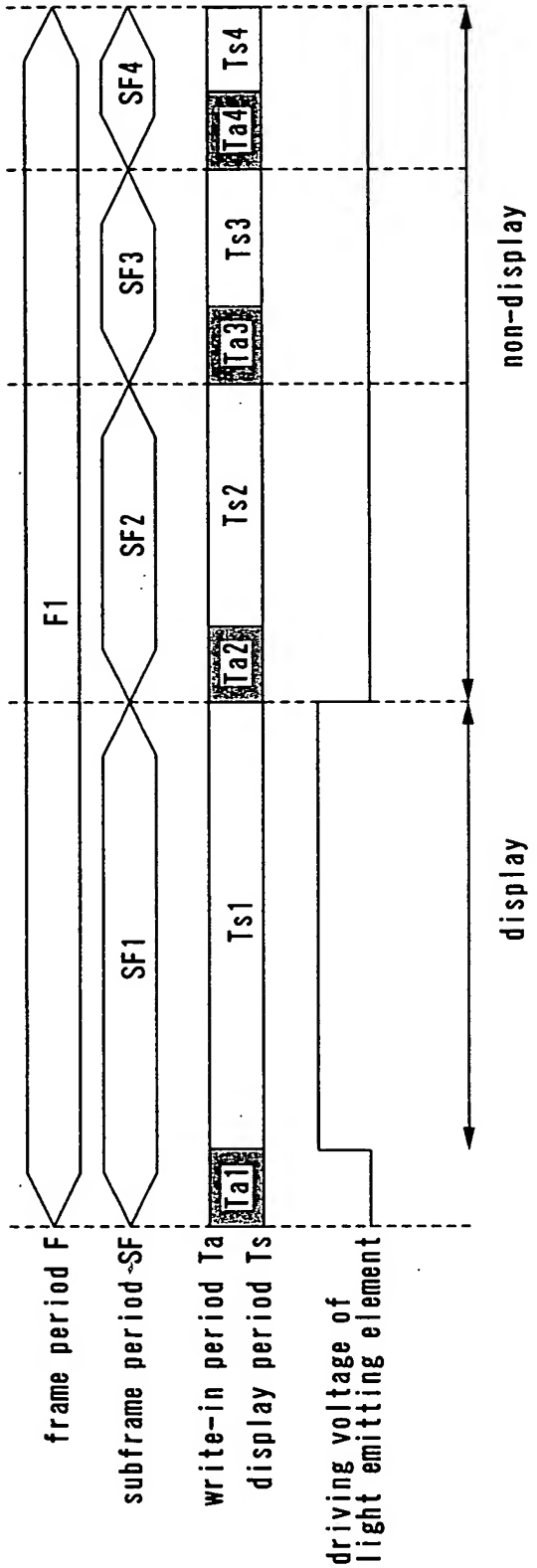

frame period F
subframe period SF
write-in period Ta
display period Ts
driving voltage of light emitting element
F1
SF1
SF2
SF3
SF4
Ta1
Ta2
Ta3
Ta4
Ts1
Ts2
Ts3
Ts4
display
non-display

Fig. 9

Fig. 10A

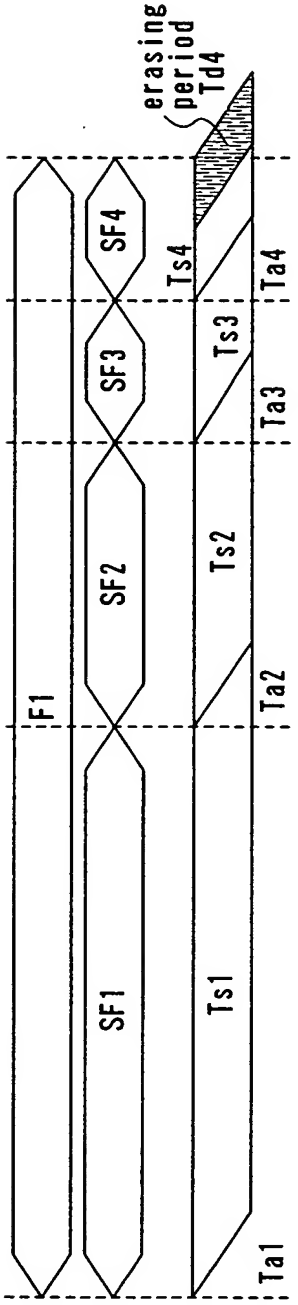


Fig. 10B

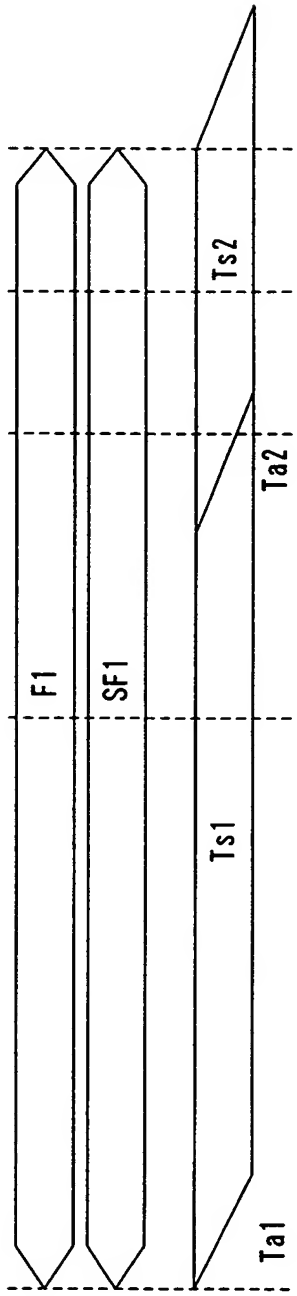


Fig. 11A

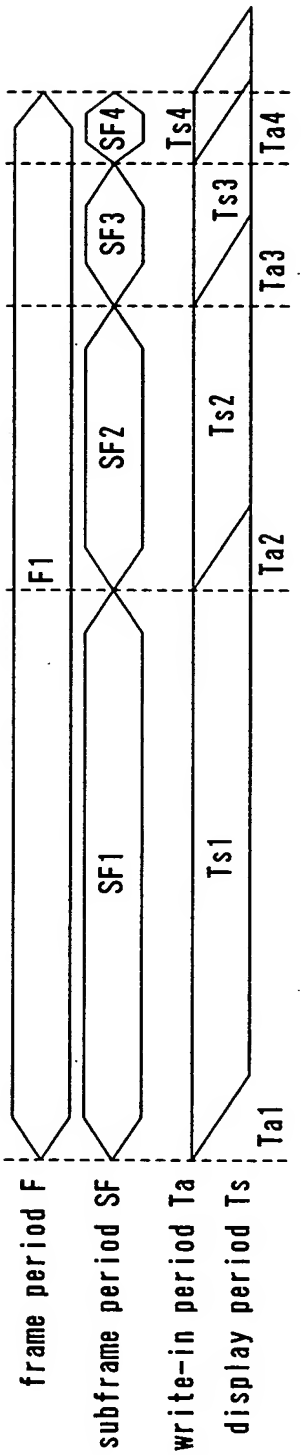


Fig. 11B

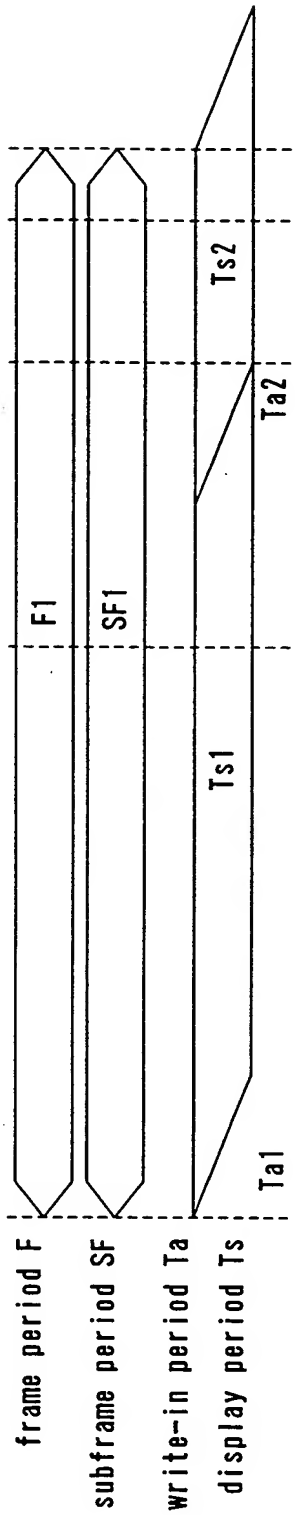


Fig. 12

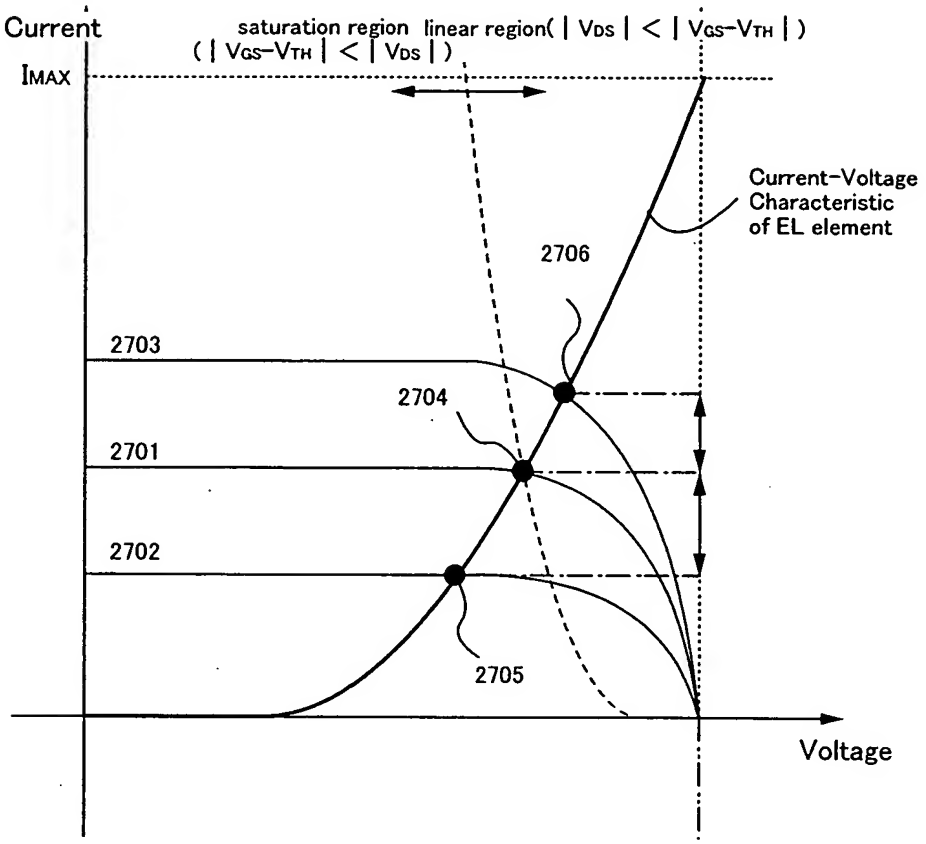

Current
saturation region
linear region(| VDS | < | VGS-VTH |)
(| VGS-VTH | < | VDS |)
IMAX
Current-Voltage
Characteristic
of EL element
2706
2703
2704
2701
2702
2705
Voltage

Fig. 13A

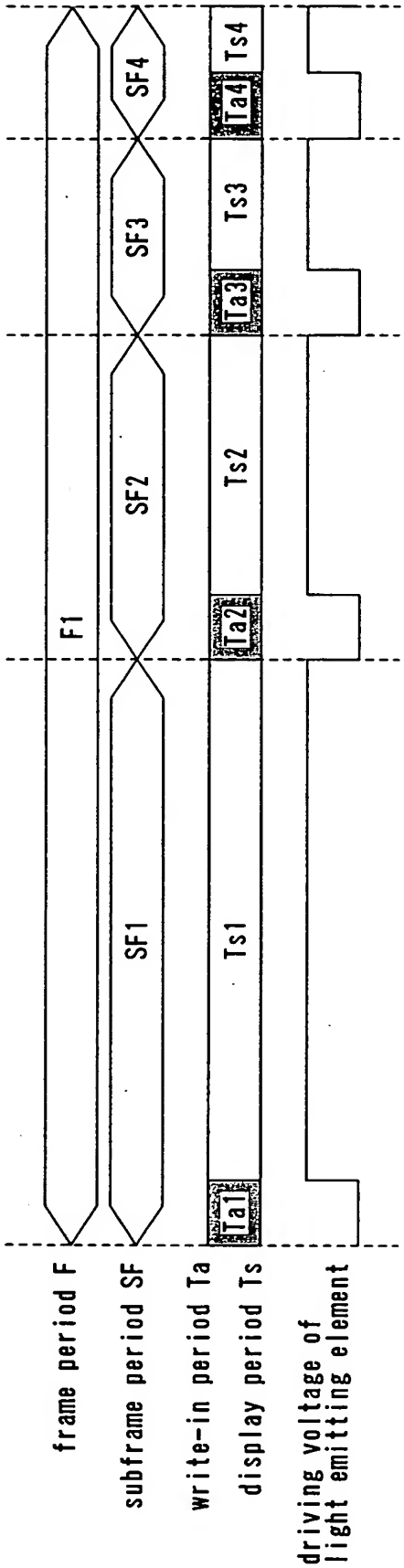


Fig. 13B

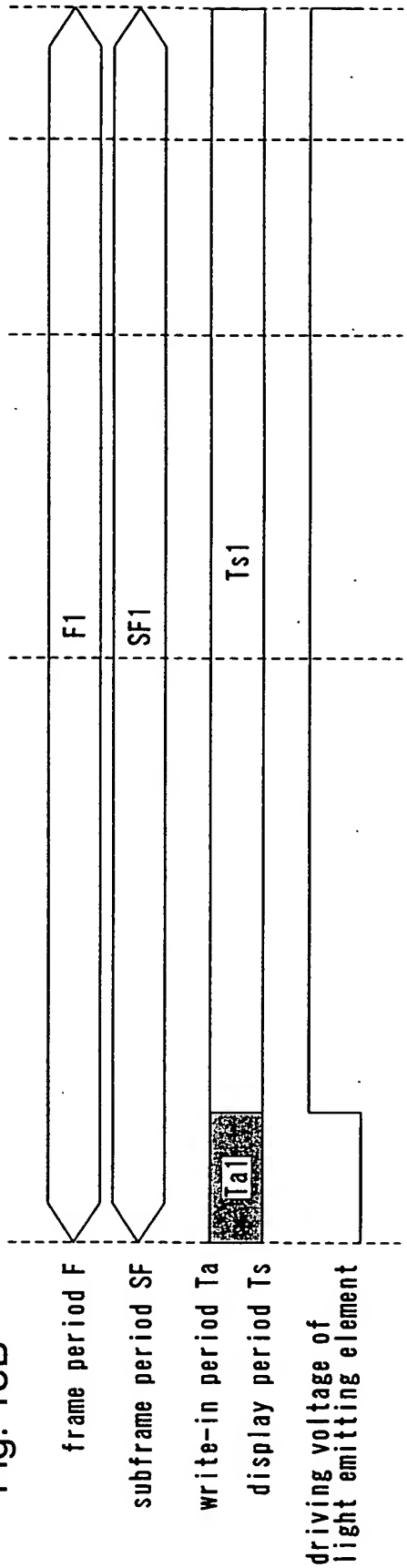


Fig. 14A

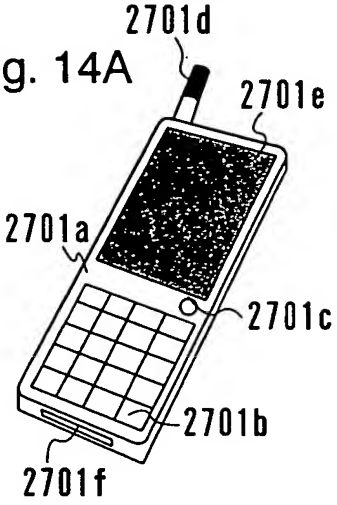


Fig. 14B

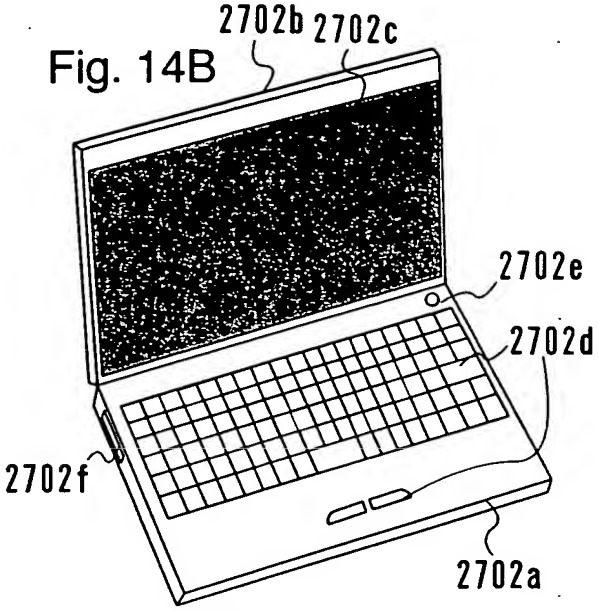


Fig. 14C

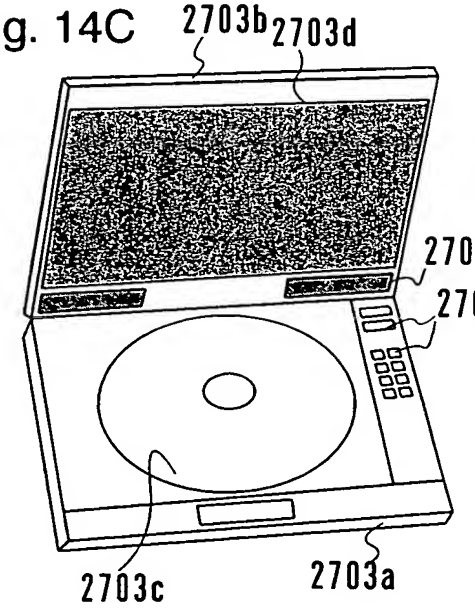


Fig. 14D

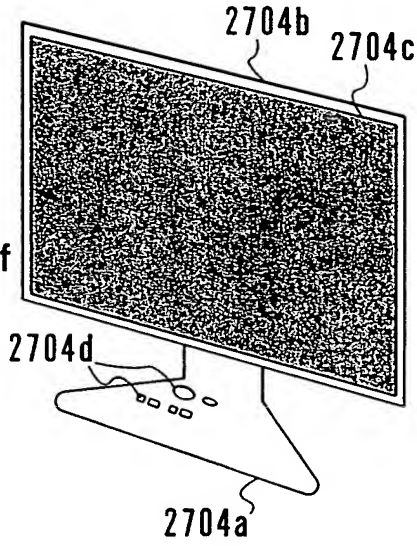


Fig. 14E

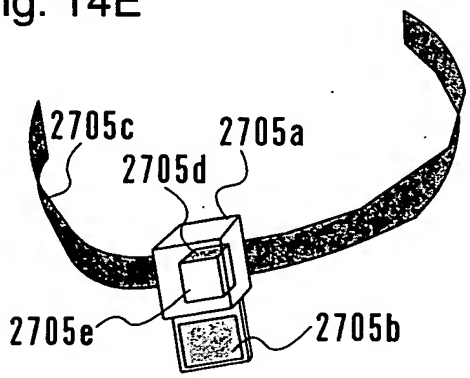
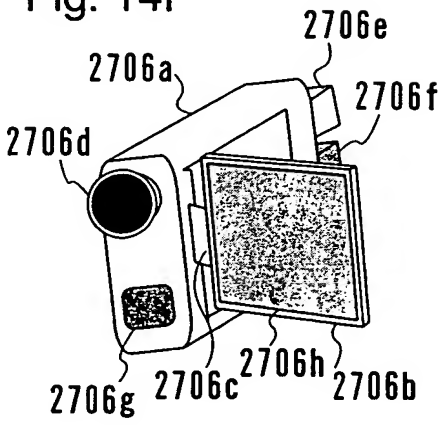


Fig. 14F



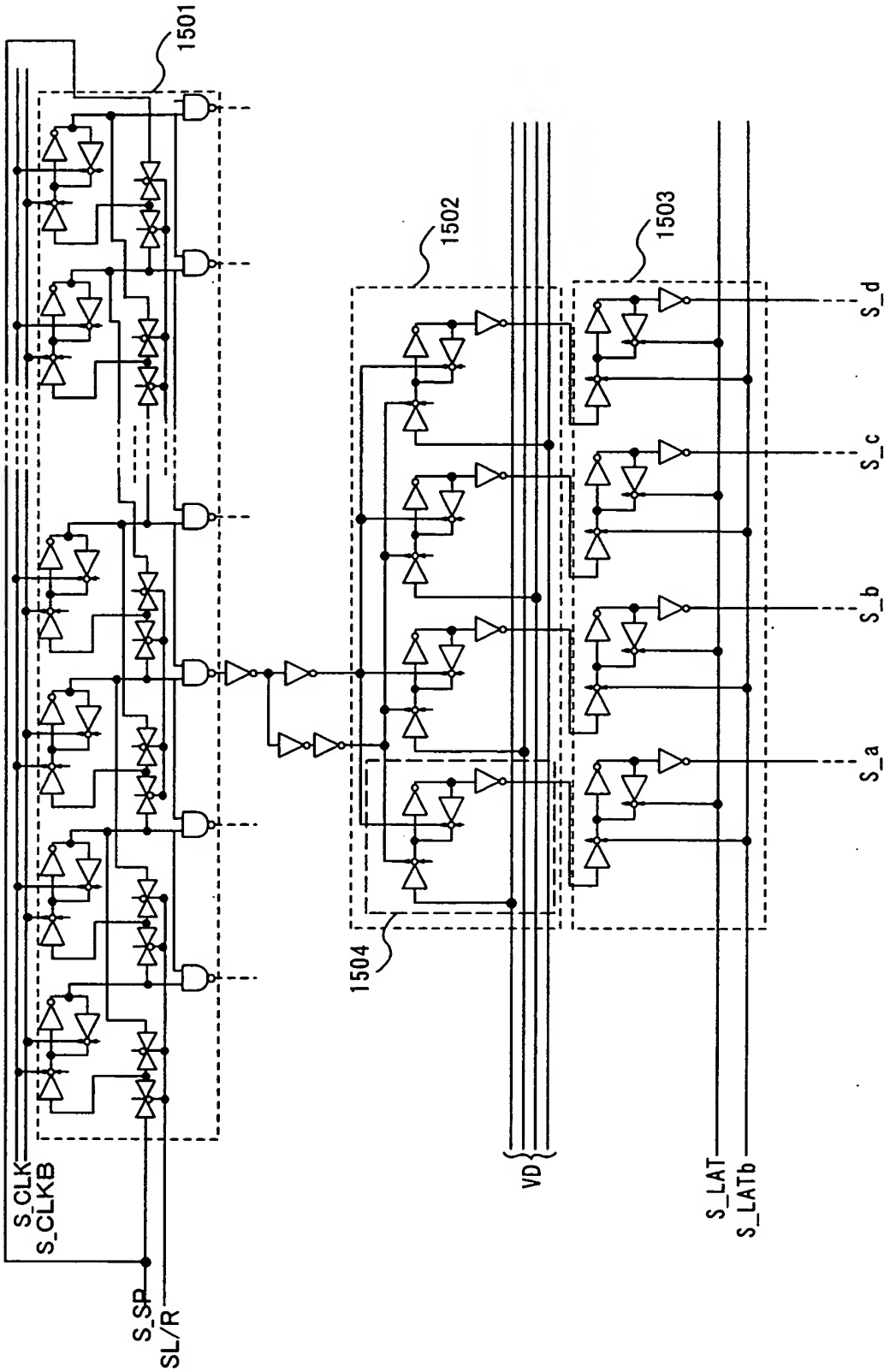

1501
1502
1503
1504
S_CLK
S_CLKB
S_SP
SL/R
VD
S_LAT
S_LATb
S_d
S_c
S_b
S_a

Fig. 15

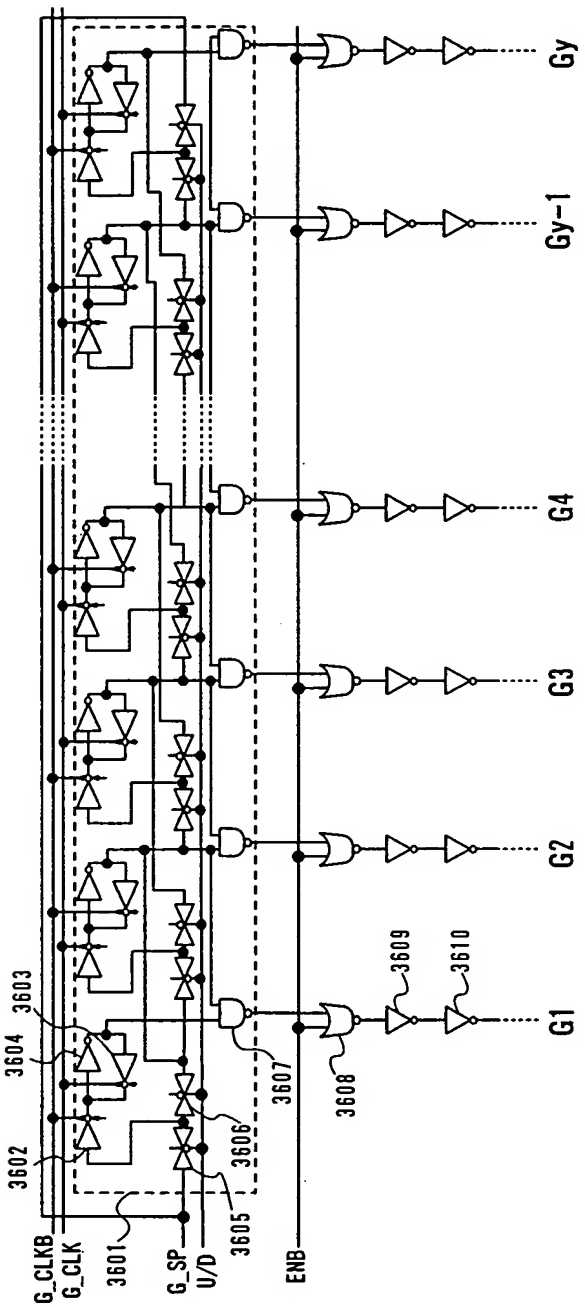

Gy
Gy-1
G4
G3
G2
G1
3609
3610
3603
3604
3607
3608
3602
3606
3601
3605
G_CLKB
G_CLK
G_SP
U/D
ENB

Fig. 16

Fig. 17

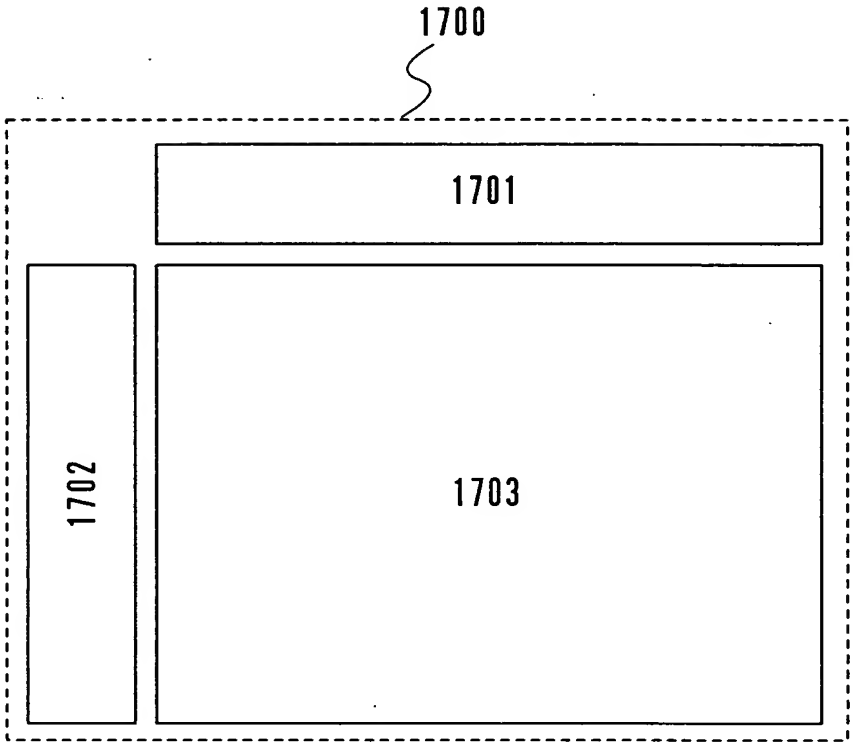


Fig. 18A

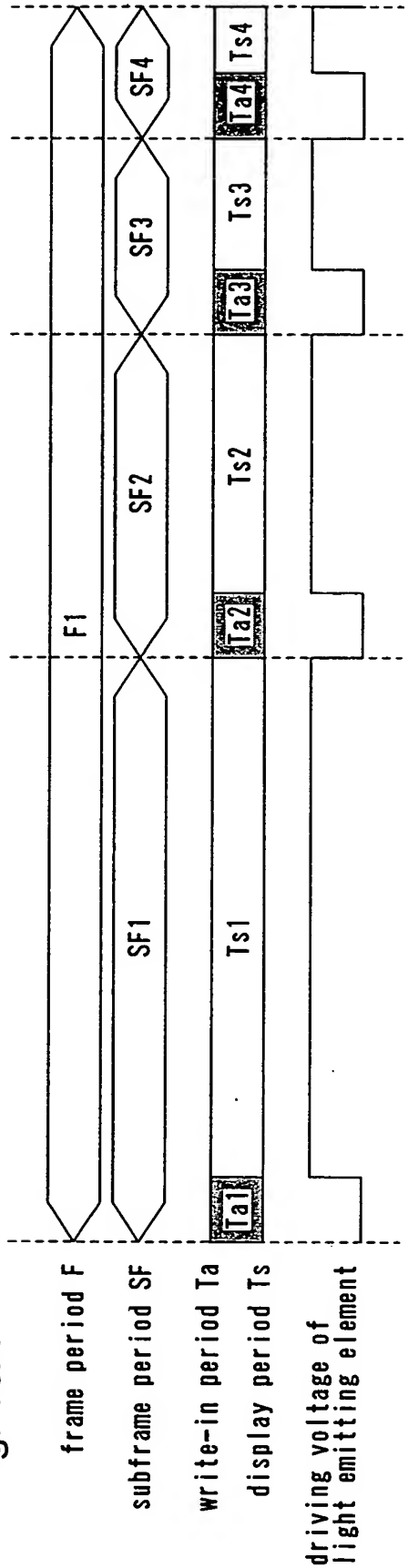


Fig. 18B

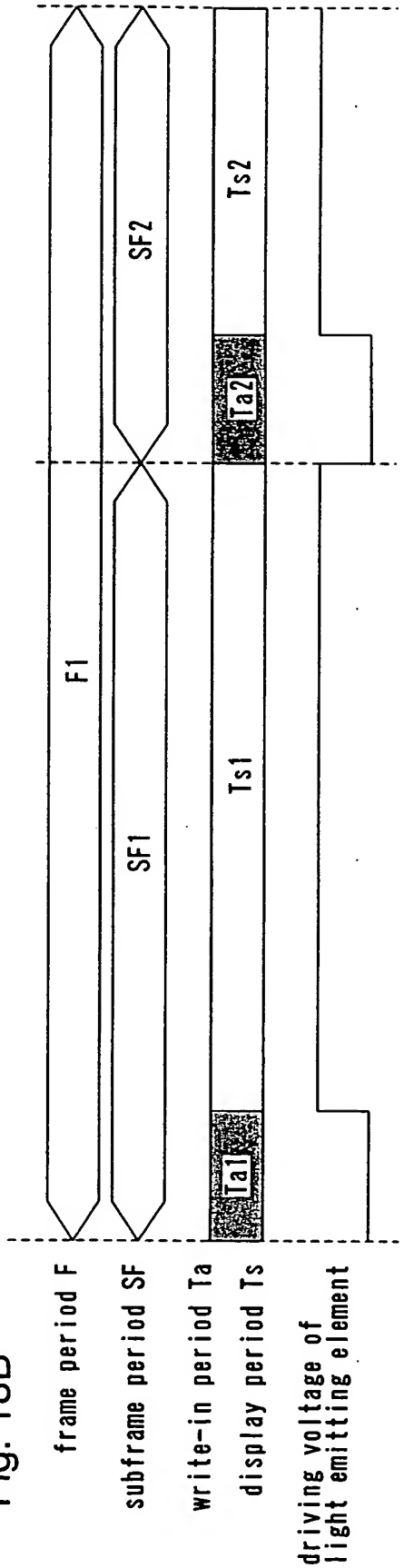


Fig. 19A

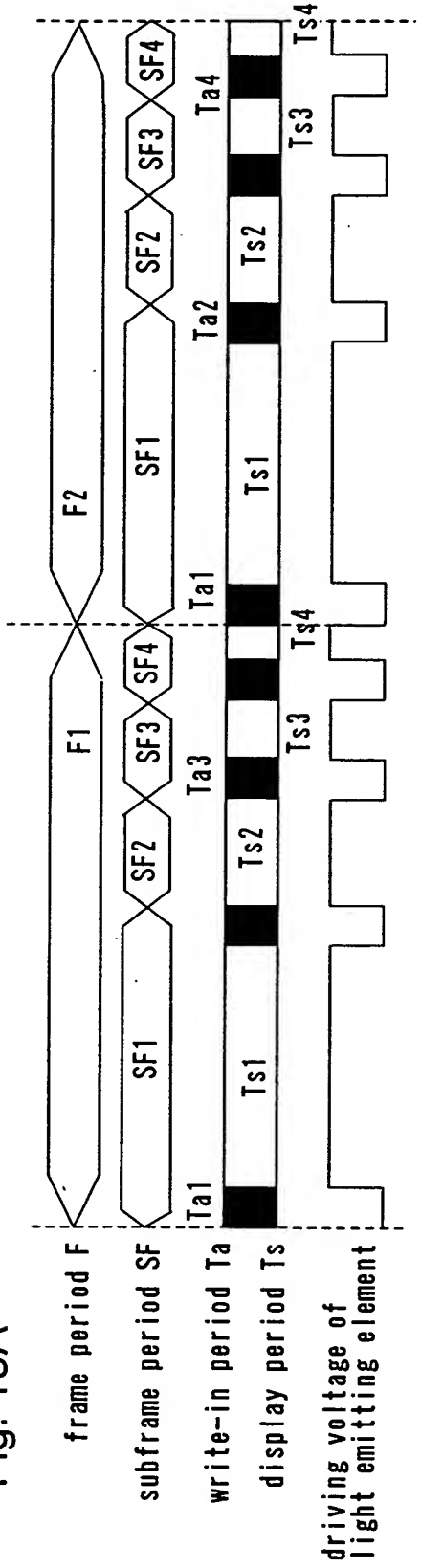
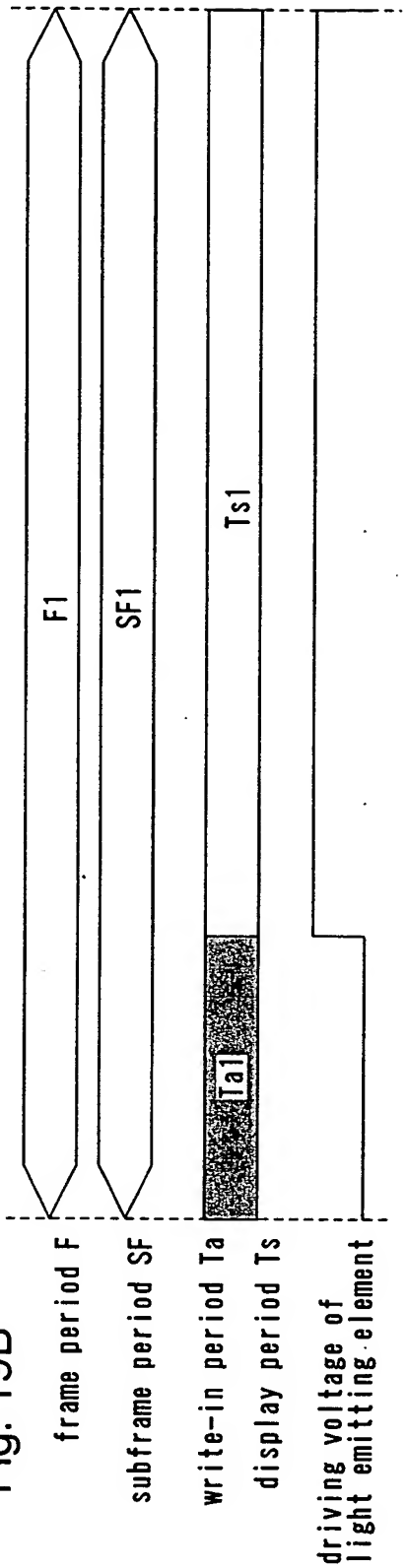



Fig. 19B